

Notice of Allowability

Application No.

10/092,867

Examiner

Brian M. Healy

Applicant(s)

EVANS, GARY A.

Art Unit

2874

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the application filed 03/07/02.
2. ☒ The allowed claim(s) is/are 1-20.
3. ☒ The drawings filed on 07 March 2002 are accepted by the Examiner.
4. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

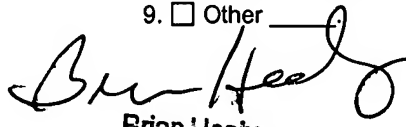
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date 03172003
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),
Paper No./Mail Date _____.
7. ☐ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____


Brian M. Healy
Primary Examiner

Brian M. Healy
Primary Examiner
Art Unit: 2874

REASONS FOR ALLOWANCE

The following is an Examiner's Statement of Reasons for Allowance: The closest art of record is Amann, U.S.P. No.5,511,084 which teaches (Figs.1-8) an optical waveguide integrated laser diode comprising: first optical waveguide 4 including mirrored ends with coupled waveguide sections 2 that are evanescently coupled in coupling regions F1 which forms optical resonators and with at least one outcoupling aperture. Annan does not teach or suggest the claimed integrated laser diode system that comprises a first waveguide having first and second reflectors at each end and an outcoupling aperture positioned to outcouple light at a location between the first and the second location; a second and third waveguide with reflectors at a first end and a second end that is optically coupled to the first waveguide wherein the photons generated in the second and third waveguides are coupled into the first waveguide and emitted through the outcoupling aperture. These features are recited in claims 1-14. Also not taught by Anaan or any other of the references of record is a laser diode system comprising: a first cavity optically coupled to a second cavity by evanescent coupling at a coupling region; wherein the first cavity has a first electrical contact and a second electrical contact and wherein the first electrical contact is used to generate photons in an active region of the first cavity and the second contact is used to vary the optical properties in the coupling region of the first cavity. These features are recited in claims 15-20. Thus it can be clearly seen that the limitations of claims 1-20 are patentable distinguishable over Annan and all of the other references of record.

A copy of PTO-1449 will be included in this office action. The following references are also cited by the Examiner as being pertinent prior art: Grubsky., U.S.P. No.6,360,038 (Figs.1-8), Congdon et. al., U.S.P. No. 5,673,284(Figs.1-8), Bischel et. al., U.S.P. No. 5,499,256(Figs.1-

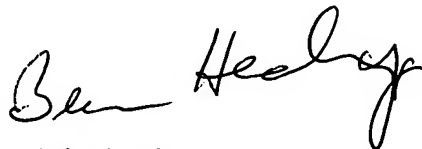
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10), Claudberg et. al., U.S.P. No.5,463,705 (Figs.1-16), Lee, U.S.P. No.4,888,785 (Figs.1-6) and Komatsu et. al., U.S.P. No.5,841,929 (Figs.1-12B).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning the merits of this communication should be directed to Examiner BRIAN M. HEALY Examiner at telephone number (571) 272-2347. Any inquiry of a general or clerical nature (i.e. a request for a missing form or paper, etc.) should be directed to the Technology Center 2800 receptionist at telephone number (703) 308-0956, to the technical support staff supervisor (Team 2) at telephone number (703) 308-3072, or to the Technology Center 2800 Customer Service Office at telephone number (703) 306-3329.

BRIAN M. HEALY
Primary Patent Examiner
Group Art Unit 2874

A handwritten signature in black ink, appearing to read "Brian Healy", written in a cursive style.

Brian Healy
Primary Examiner